



# UNITED STATES PATENT AND TRADEMARK OFFICE

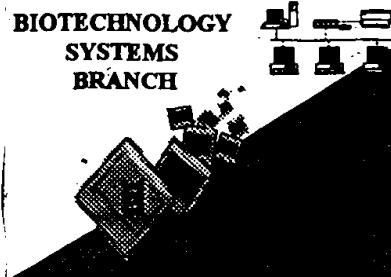
COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
[www.uspto.gov](http://www.uspto.gov)

## ATTACHMENT TO "NOTICE TO COMPLY WITH REQUIREMENTS...SEQUENCE DISCLOSURES"

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be submitted using one of the following methods:

1. Electronically submitted through EFS-Bio  
(<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual - ePAVE)
2. Mailed to:  
U.S. Patent and Trademark Office  
Box Sequence, P.O. Box 2327  
Arlington, VA 22202
3. Mailed by Federal Express, United Parcel Service or other delivery service to:  
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Crystal Plaza Two, Lobby, Room 1B03  
Arlington, Virginia 22202
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Arlington, Virginia 22202

0500



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/017,610  
Source: 01PE  
Date Processed by STIC: 12/31/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

**Raw Sequence Listing Error Summary**

**ERROR DETECTED**

**SUGGESTED CORRECTION**

**SERIAL NUMBER:** 10/017,610

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

- 1  Wrapped Nucleics  
Wrapped Aminos  
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2  Invalid Line Length  
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3  Misaligned Amino Numbering  
The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4  Non-ASCII  
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5  Variable Length  
Sequence(s) \_\_\_\_\_ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6  PatentIn 2.0  
"bug"  
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7  Skipped Sequences  
(OLD RULES)  
Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8  Skipped Sequences  
(NEW RULES)  
Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9  Use of n's or Xaa's  
(NEW RULES)  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10  Invalid <213>  
Response  
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11  Use of <220>  
*375*  
Sequence(s) *375* missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12  PatentIn 2.0  
"bug"  
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13  Misuse of n  
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,610

DATE: 12/31/2001

TIME: 12:57:49

Input Set : A:\Seq\_List\_for\_P2830P1C64.wpd  
 Output Set: N:\CRF3\12312001\J017610.raw

3 <110> APPLICANT: Baker, Kevin P.  
 4 Botstein, David  
 5 Desnoyers, Luc  
 6 Eaton, Dan L.  
 7 Ferrara, Napoleone  
 8 Fong, Sherman  
 9 Gao, Wei-Qiang  
 10 Goddard, Audrey  
 11 Godowski, Paul J.  
 12 Grimaldi, Christopher J.  
 13 Gurney, Austin L.  
 14 Hillan, Kenneth J.  
 15 Pan, James  
 16 Paoni, Nicholas F.

18 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 19 Acids Encoding the Same

21 <130> FILE REFERENCE: P2830P1C64

23 <140> CURRENT APPLICATION NUMBER: US/10/017,610

23 <141> CURRENT FILING DATE: 2001-12-13

23 <150> PRIOR APPLICATION NUMBER: 60/098716

24 <151> PRIOR FILING DATE: 1998-09-01

26 <150> PRIOR APPLICATION NUMBER: 60/098723

27 <151> PRIOR FILING DATE: 1998-09-01

29 <150> PRIOR APPLICATION NUMBER: 60/098749

30 <151> PRIOR FILING DATE: 1998-09-01

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33 <151> PRIOR FILING DATE: 1998-09-01

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48 <151> PRIOR FILING DATE: 1998-09-09

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53 <150> PRIOR APPLICATION NUMBER: 60/099602

54 <151> PRIOR FILING DATE: 1998-09-09

56 <150> PRIOR APPLICATION NUMBER: 60/099642

57 <151> PRIOR FILING DATE: 1998-09-09

59 <150> PRIOR APPLICATION NUMBER: 60/099741

60 <151> PRIOR FILING DATE: 1998-09-10

62 <150> PRIOR APPLICATION NUMBER: 60/099754

63 <151> PRIOR FILING DATE: 1998-09-10

Does Not Comply  
 Corrected Diskette Needed

P6

CIC

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/017,610

DATE: 12/31/2001  
TIME: 12:57:49

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/017,610

DATE: 12/31/2001  
TIME: 12:57:49

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Output Set: N:\CRF3\12312001\J017610.raw

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/017,610

DATE: 12/31/2001  
TIME: 12:57:49

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Output Set: N:\CRF3\12312001\J017610.raw

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/017,610

DATE: 12/31/2001  
TIME: 12:57:49

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10/01/76/10 6

<210> 375  
<211> 1098  
<212> DNA  
<213> Artificial  
<400> 375

see item 11 on Env Summary Sheet

FYI →

Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/017,610

DATE: 12/31/2001  
TIME: 12:57:50

Input Set : A:\Seq\_List\_for\_P2830P1C64.wpd  
Output Set: N:\CRF3\12312001\J017610.raw

L:23 M:270 C: Current Application Number differs, Replaced Current Application No  
L:23 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:520 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1  
L:523 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1  
L:533 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2  
L:536 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2  
L:681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:1342 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13  
L:1345 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13  
L:1355 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14  
L:1358 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14  
L:1368 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15  
L:1371 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15  
L:1551 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18  
L:1554 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18  
L:1564 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18  
L:1567 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19  
L:1577 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19  
L:1580 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20  
L:1911 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20  
L:1914 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25  
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L:1927 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26  
L:1937 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:27  
L:1940 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27  
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L:2409 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:34  
L:2419 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:35  
L:2422 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:35  
L:2432 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:36  
L:2435 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:36  
L:2445 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:36  
L:2448 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:37  
L:2458 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:37  
L:2461 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:38  
L:2471 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:38  
L:2474 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:39  
L:2779 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:39  
L:2782 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44  
L:2792 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:44  
L:2795 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:45  
L:2805 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:45  
L:2808 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:46  
L:2818 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:47  
L:2821 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:47  
L:2831 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:48  
L:2834 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:48  
L:3957 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:59

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/017,610

DATE: 12/31/2001

TIME: 12:57:50

Input Set : A:\Seq\_List\_for\_P2830P1C64.wpd  
Output Set: N:\CRF3\12312001\J017610.raw

L:3960 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:59  
L:3970 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:60  
L:3973 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:60  
L:3983 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:61  
L:3986 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:61  
L:4030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62  
L:4122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63  
L:4158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63  
L:4185 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:64  
L:4188 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:64  
L:4198 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:65  
L:4201 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:65  
L:4211 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:66  
L:4214 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:66  
L:4694 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:73  
L:4697 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:73  
L:4707 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:74  
L:4710 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:74  
L:4720 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:75  
L:4723 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:75  
L:5092 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:80  
L:5095 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:80  
L:5108 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:81  
L:5118 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:82  
L:5121 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:82  
L:5881 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:89  
L:5884 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:89  
L:5894 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:90  
L:5897 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:90  
L:5907 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:91  
L:5910 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:91  
L:5920 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:92  
L:5923 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:92  
L:5933 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:93  
L:5936 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:93  
L:6143 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:96  
L:6146 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:96  
L:6156 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:97  
L:6159 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:97  
L:6169 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:98  
L:6172 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:98  
L:6884 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:105  
L:6887 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:105  
L:6897 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:106  
L:6900 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:106  
L:6910 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:107  
L:6913 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:107  
L:6923 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:108  
L:6926 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:108

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/017,610

DATE: 12/31/2001

TIME: 12:57:50

Input Set : A:\Seq\_\_List\_for\_P2830P1C64.wpd  
Output Set: N:\CRF3\12312001\J017610.raw

L:6936 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:109  
L:6939 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:109  
L:7066 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:112  
L:7069 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:113  
L:7079 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:113  
L:7082 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:114  
L:7092 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:114  
L:7095 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:114  
L:7473 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:119  
L:14262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:259  
L:20824 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:20824 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:20939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:377  
L:22554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:422